

New Paltz Central School District
Mathematics
Fourth Grade

TIME	CONTENT	SKILLS	ASSESSMENTS
00+0000-1000000	<p><u>UNIT 1: The Number System</u></p> <ul style="list-style-type: none"> • What are landmark numbers? • How do people use landmark numbers to solve everyday problems? • How do people use estimation to solve problems? <p style="text-align: center;">-----</p> <ul style="list-style-type: none"> • Whole numbers • Place value • Addition • Subtraction • Counting • Rounding • Estimating • Addition and subtraction of multiples 	<ul style="list-style-type: none"> • Find and count by factors of 100 • Use landmarks to find differences between numbers • Add numbers up to 10,000 • Subtract numbers up to 10,000 • Subtract with zeros-numbers up to 10,000 • Estimate • Solve story problems using addition and subtraction of numbers up to 10,000 • Understand the place value structure up to ten-thousands • Predict if a sum or difference of two numbers is odd or even • Make change, using combined coins and dollar amounts 	<ul style="list-style-type: none"> • The Number System unit assessment • Teacher observation • Student discussion • Teacher determined checkpoints
000000-2000000	<p><u>UNIT 2: Geometry</u></p> <ul style="list-style-type: none"> • What are the properties of polygons? • What is the difference between a two-dimensional object and a three-dimensional object? • How do we find the perimeter of a polygon? • How do we find the area of a rectangle? <p style="text-align: center;">-----</p> <ul style="list-style-type: none"> • 2-D geometry-polygons • 3-D geometry • Perimeter • Area 	<ul style="list-style-type: none"> • Identify and describe spatial relationships • Develop visualization skills • Describe geometric figures – triangle, quadrilateral, pentagon, hexagon, octagon • Define and identify vertices, faces, and edges of three-dimensional shapes • Find perimeter of polygons • Find area of a rectangle 	<ul style="list-style-type: none"> • Geometry unit assessment • Teacher observation • Student discussion • Teacher determined checkpoints

New Paltz Central School District
Mathematics
Fourth Grade

TIME	CONTENT	SKILLS	ASSESSMENTS
20>0E000-1 000E000	<p><u>UNIT 3: Multiplication and Division</u></p> <ul style="list-style-type: none"> • What patterns are used in multiplication? • What is the relationship between multiplication and division? • What do we do with remainders? <p style="text-align: center;">-----</p> <ul style="list-style-type: none"> • Multiplication • Division • Clusters • Interpretation of multiplication and division standard algorithms 	<ul style="list-style-type: none"> • Skip count • Identify multiplication patterns • Interpret standard notation • Use known multiplication relationships to solve harder problems • Use arrays as models • Portion numbers to multiply • Multiply two-digit by one-digit numbers • Divide two-digit by one-digit numbers • Use multiplication and division as inverse operations to solve problems • Divide with remainders • Solve story problems using multiplication and division 	<ul style="list-style-type: none"> • Multiplication and Division unit assessment • Teacher observation • Student discussion • Teacher determined checkpoints
0-100000	<p><u>UNIT 4: Algebra</u></p> <ul style="list-style-type: none"> • How can we make an open sentence true? <p style="text-align: center;">-----</p> <ul style="list-style-type: none"> • Evaluating open sentences • Finding the missing variable to make an open sentence true • Analyzing patterns and identifying rules 	<ul style="list-style-type: none"> • Use $<$ and $>$ • Complete an input/output table • Use the appropriate operation to find a missing variable 	<ul style="list-style-type: none"> • Algebra unit assessment • Teacher observation • Student discussion • Teacher determined check points

New Paltz Central School District
Mathematics
Fourth Grade

TIME	CONTENT	SKILLS	ASSESSMENTS
100 90 80 70 60 50 40 30 20 10 0	<p><u>UNIT 5: Measurement:</u> <u>Statistics/Graphing</u></p> <ul style="list-style-type: none"> • Why and how do we measure length, capacity, mass, and time? • How do people analyze data from graphs and tables? ----- • Measuring mass • Measuring length • Measuring capacity • Measuring elapsed time • Analyzing data 	<ul style="list-style-type: none"> • Select appropriate tools • Use a ruler to measure to the nearest $\frac{1}{4}$ inch • Know and understand equivalent standard units of length • Measure mass using grams • Measure capacity using liters • Calculate elapsed time using a clock/calendar • Analyze bar and line graphs 	<ul style="list-style-type: none"> • Measurement unit assessment • Teacher Observation • Student discussion • Teacher determined checkpoints
100 90 80 70 60 50 40 30 20 10 0	<p><u>UNIT 6: Fractions and Decimals</u></p> <ul style="list-style-type: none"> • What patterns can be found in equivalent fractions? • In what ways can we compare fractions? • How do we use fractions and decimals in our daily lives? • How does money relate to decimals, fractions, and percents? ----- • Fractions • Decimals • Fraction/decimal equivalents • Money 	<ul style="list-style-type: none"> • Compare fractions • Understand that equal fractions of a whole have the same area • Create fractional parts by dividing an area equally • Recognize that a fraction represents different sizes if the whole is different • Understand halves, fourths, thirds, fifths, sixths, tenths • Order fractions and decimals • Compare fractions and decimals • Add and subtract fractions • Understand the relationship of decimal parts to the whole • Develop strategies for combining decimals, particularly money amounts 	<ul style="list-style-type: none"> • Fractions and Decimals unit assessment • Teacher observation • Student discussion • Teacher determined checkpoints

New Paltz Central School District
Mathematics
Fourth Grade

TIME	CONTENT	SKILLS	ASSESSMENTS
A p r i	<p><u>UNIT 7: Geometric Relationships</u></p> <ul style="list-style-type: none"> • How are perpendicular lines, parallel lines, and angles used in our lives? ----- • 2-D geometry 	<ul style="list-style-type: none"> • Identify and classify properties of geometric figures – line segments and angles • Draw line segments and angles 	<ul style="list-style-type: none"> • Geometric Relationships unit assessment • Teacher observation • Student discussion • Teacher determined checkpoints
M a y	<p><u>UNIT 8: Statistics</u></p> <ul style="list-style-type: none"> • How do people collect and analyze data in their everyday lives? • How do we describe and compare patterns and special features of data? ----- • Data collection • Data representation • Data analysis 	<ul style="list-style-type: none"> • Create line plots • Summarize a set of data • Describe the shape of data • Compare two sets of data • Record data • Organize data • Ask statistical questions • Find the mean, median, and mode in a set of data • Represent data 	<ul style="list-style-type: none"> • Statistics unit assessment • Teacher observation • Student discussion • Teacher determined checkpoints
J u n e	<p><u>UNIT 9: Advanced Multiplication and Division</u></p> <ul style="list-style-type: none"> • What strategies can be used to solve double-digit multiplication problems (23 x 25)? • How are multiplication and division related to each other? ----- • Multiplication • Division 	<ul style="list-style-type: none"> • Become fluent with multiples of larger numbers • Use a variety of strategies to multiply two-digit numbers by two-digit numbers • Identify factors of larger numbers • Partition large numbers to multiply • Use a variety of strategies to divide two-digit dividends by one-digit divisors • Use estimation • Find number patterns and sequences 	<ul style="list-style-type: none"> • Advanced Multiplication and Division unit assessment • Teacher Observation • Student discussion • Teacher determined checkpoints